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TITLE: Plant branched-chain amino acid biosynthetic enzymes.

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530/350, 536/23.2, 800/278, 800/295

CLAIMS:

What is claimed is:

1. An isolated polynucleotide comprising a nucleotide sequence that encodes a dihydroxyacid dehydratase polypeptide, wherein said nucleotide sequence has a sequence identity of at least 80% based on the Clustal method of alignment when compared to a polynucleotide selected from the group consisting of SEQ ID NOS:1, 3, and 5.
2. The polynucleotide of claim 1 wherein the sequence identity is at least 85%.
3. The polynucleotide of claim 1 wherein the sequence identity is at least 90%.
4. The polynucleotide of claim 1 wherein the sequence identity is at least 95%.
5. The polynucleotide of claim 1 wherein the polynucleotide encodes a polypeptide selected from the group consisting of SEQ ID NOS:2, 4, and 6.
6. The polynucleotide of claim 1, wherein the polynucleotide comprises a nucleotide sequence selected from the group consisting of SEQ ID NO:1, 3, and 5.
7. An isolated complement of the polynucleotide of claim 1, wherein (a) the complement and the polynucleotide consist of the same number of nucleotides, and (b) the nucleotide sequences of the complement and the polynucleotide have 100% complementarity.
8. A recombinant DNA construct comprising the polynucleotide of claim 1 operably linked to at least one suitable regulatory sequence.

9. A cell comprising the polynucleotide of claim 1.
10. The cell of claim 9, wherein the cell is selected from the group consisting of a yeast cell, a bacterial cell and a plant cell.
11. A virus comprising the polynucleotide of claim 1.
12. A transgenic plant comprising the polynucleotide of claim 1.